## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO.   | DATE     |
|---------------------------|----------|----------|----------|
| FEE DETERMINATION         | 9.U.     |          | 3/29/11  |
| O.I.P.E. CLASSIFIER       |          | PH       | 4/2      |
| FORMALITY REVIEW          |          | 1        | 1/2      |
| RESPONSE FORMALITY REVIEW | (10)     | 1 dildas | 15-24-01 |
|                           |          | C (O-C)  | 1-300    |

**INDEX OF CLAIMS** 

BEST AVAILABLE COPY

| , | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

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|-----------|----------|--------------|--------------|----------------|----------|-----------|----------|----------|--|----------|----------|----------|------|
| Cla       | im       |              | -            |                | _        |           | Dat      | te       |  |          |          |          | l    |
|           |          | ~            | •            | 7              | 7        | λ-        |          | Ī        |  |          | •        |          |      |
| Ē         | Original | 1-01/02      | 60/10        | 3              | 10       | S         |          |          |  |          |          |          |      |
| Final     | ō        | 10           | IV           | 5              | ŏ        | 3         |          |          |  |          |          |          |      |
|           | V .1     | -ŀ           | Y            | 1              | _        | ✓         |          |          |  |          |          |          |      |
|           | 2        | $\perp$      |              | Ц              | L        | 1         |          | _        |  |          |          |          |      |
|           | 3        | $\perp$      |              | Ш              | <u> </u> | Z         |          |          |  |          |          |          |      |
|           | 4        | Щ            | Ц            | Щ              | 1        | V         | _        |          |  |          | _        |          |      |
|           | _        | Ш            | Ц            | Щ              |          |           |          | <u> </u> | L  |          | _        |          |      |
| _         | 6<br>7   | $\mathbb{H}$ | 4            | 4              | <u>{</u> | 7         | _        | <u> </u> | <u> </u>                                     |          | _        |          |      |
|           | 8        | +            | 4            | +              | ╀        | H         |          | -        | -  | _        | -        |          |      |
|           | 9        | +            | +            | ╫              | t        | -         |          | -        |  |          |          |          |      |
| _         | 10       | $^{\rm H}$   | ╢            | ╁              | ł        | H         | -        | -        | Н  |          |          |          |      |
| $\dashv$  | 11       | H            | ╢            | +              | t        | Н         |          |          | -  | -        | $\vdash$ | Н        |      |
| $\exists$ | 12       |              | ╢            | +              | t        | H         |          | Н        | Н  | Н        |          | Н        |      |
|           | 13       | 1            | #            | +              | t        | Ш         |          | М        |  | П        | -        | П        |      |
|           | 14       | $\top$       | 1            | †              | T        | П         |          |          |  |          | -        |          |      |
|           | 15       |              | 1            | I              | Γ        |           |          |          |  |          |          |          |      |
|           | 16       |              | 1            | Ι              |          | V         |          |          |  |          |          |          |      |
|           | 17       | Д            | Ţ            | $ \downarrow $ | Ĺ        | 0         |          |          | $\Box$                                       |          |          |          |      |
|           | 18       | Ш            | 1            | 1              | L        | <b>V</b>  |          | L        |  | $\Box$   | Ш        |          |      |
|           | 19       | Ш            | 1            |                | L        | ı         |          | <u> </u> |  |          |          |          |      |
|           | 8<br>[2] | Ш            |              | ⊥              | L        |           | L.       | <u> </u> | L  |          |          |          |      |
| _         |          | Ш            | 1            | ╧              | L        | Ш         |          |          |  |          | L        |          |      |
|           | 22       | $\perp$      |              | 1              | L        | 1         |          | <u> </u> |  | _        |          |          |      |
|           | 23       | 4            | 1            | 4              | L        | Ш         |          | ļ        | <u> </u>                                     |          | L        |          |      |
|           | 24       | +            | 4            | +              | Ł        | Н         | _        | -        | <u>.                                    </u> |          |          |          |      |
|           | 25       | +            | -            | +              | ╀        | 1         |          | ├—       |  | -        |          |          |      |
| _         | 26<br>27 | +            | H            | +              | ╁        | ╂         |          | ┝        |  | $\vdash$ | _        |          |      |
|           | 28       | +            | H            | +              | t        |           | -        | -        | $\vdash$                                     | ┢        |          | -        |      |
|           | 29       | +            | H            | $^{+}$         | t        |           | -        | -        | $\vdash$                                     | -        | $\vdash$ | $\vdash$ | l    |
|           | 30       | +            | Н            | +              | t        | Н         | -        | -        | $\vdash$                                     | -        | H        | ┢        | l    |
|           | 31       | T            | Ħ            | 十              | t        | H         |          |          | ┢  | -        |          |          | l    |
|           | 32       | 1            | Ħ            | +              | t        | $\dagger$ |          |          | Γ  |          | Г        | Γ        |      |
|           | 33       |              |              | †              | Ī        |           |          |          |  |          |          |          |      |
|           | 34       |              |              | Ι              |          |           | /        |          |  |          |          |          |      |
|           | 35       | $\prod$      | $\coprod$    | $\perp$        | Ĺ        | V         |          |          | L  |          |          | L        |      |
|           | 36       | $\perp$      | Ц            | $\downarrow$   | L        | O         | ļ        | _        |  | _        | <u> </u> | _        |      |
|           | 37       | $\perp$      | 4            | 4              | L        | Ŏ         | L        | _        | <u> </u>                                     | <u> </u> | <u> </u> |          |      |
|           | 38       | 4            | 4            | +              | L        | Q         | <u> </u> | <u> </u> | <u> </u>                                     |          | ļ        |          | 1    |
| -         | 39       | $\mathbb{H}$ | $\mathbb{H}$ | +              | ╀        | 1         | <u> </u> | -        | -  |          | -        | -        | 1    |
| _(        | 40<br>41 | +            | $^{+}$       | +              | ╀        | -         | L        | _        | -  | -        | _        | -        | -    |
|           |          | 4            | 4            | +              | H        | #         | <b>_</b> | -        | -  | ļ        | -        | -        | 1    |
|           | 42<br>43 | +            | 4            | +              | ┞        | #         | <u> </u> |          | -  |          | ⊢        | H        | {    |
|           | 44       | +            | +            | +              | H        | +         | -        | -        | -  | -        | $\vdash$ | -        | 1    |
|           |          | 4            | +            | +              | H        | -         |          | -        | -  | -        | ⊢        | $\vdash$ |      |
|           | 45       |              |              | - 1            | 1        | Н.        | <u> </u> | L-       | <u> </u>                                     | ⊢-       | <u> </u> | <b>!</b> | 1    |
| -         | 45<br>46 | +            | $\dagger$    | +              | Г        | T         | Į.       |          | l  |          | ı        |          | 1    |
|           | 46       |              | 1            | 7              | F        | $\vdash$  | _        |          | -  |          |          | _        | l    |
|           | 46<br>47 |              | +            | #              |          |           |          |          |  |          |          |          |      |
|           | 46       |              | +            |                |          |           |          |          |  |          |          |          |      |

| Cla   | uim      | Γ        | -         |       |          | - |  | Dat          | e  |  |  | _  |          |
|-------|----------|----------|-----------|-------|----------|---|--|--------------|--|--|--|--|----------|
|       |          | 6,1      | 1         |       | Г        | _ |  |              |  |  |  |  | _        |
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|       | 51       | Ξ        | ١,        | 7     | 1        | 7 | W  | П            |  |  |  |  |          |
| _     | 52       | i        | ť         | _     | ľ        | _ | Ė  | -            | $\neg$   | -  | -  | _  | -        |
| _     | 53       | +        | +         | 1     | Н        | - | V  |              |  | -  | <u> </u>   |  | _        |
| _     |          | 4        | +         | H     | Н        | Ļ | ×  | $\vdash$     | _  | $\vdash$   |  |  | _        |
|       | 54       | 4        | +         | _     | Н        | Ļ | $\mathbb{Z}$   |              |  |  |  |  |          |
|       | 55       | 4        | 1         | L     | Ц        | L | 2  |              |  |  |  |  |          |
|       | 56       | Ц        | 1         | L     | Ц        | Ц | $\checkmark$   |              |  |  |  |  |          |
|       | 57       | L        | J         | _     | V        |   | ~  |              |  |  |  |  |          |
| 9     | 58       | 1        | 1         | V.    | ŀ        |   | S  |              |  |  |  |  |          |
|       | 59       | I        | ŀ         | N     |          |   |  |              |  |  |  |  |          |
|       | 60       | T        | Ţ         | IJ    | П        |   | Τ  |              |  |  |  |  |          |
|       | 61       | 1        | Ţ         | 1     |          |   | T  |              |  |  |  |  |          |
|       | 62       | ٤        | ţ         | Ü     | 7        | Γ | 7  |              |  |  |  |  |          |
| -     | 63       | ~        | t         | •     | 4,       | ۱ | - F  |              |  |  | $\vdash$   |  |          |
|       | 64       |          | $\dagger$ | -     | -        |   | _  |              |  |  |  | Н  |          |
|       | 65       |          | +         |       | H        | - | $\vdash$   |              |  | $\vdash$   |  |  | _        |
|       | 66       | H        | +         | -     | H        |   | $\vdash$   |              |  |  |  | H  | -        |
| _     | 67       | $\vdash$ | +         |       | $\vdash$ | - | -  |              |  | -  |  |  | _        |
|       |          | _        | +         | _     | Ŀ        |   | H  |              |  |  | <u> </u>   |  | <u> </u> |
| _     | 68       | _        | +         |       | L        | _ | $\vdash$   | ļ.,          | _  | L  | _  | _  | $\vdash$ |
|       | 69       | L        | 1         |       | L        | _ | <u> </u>   |              | ш  | <u> </u>   | Ш  | L  |          |
| _     | 70       | L        | 1         |       |          | _ | L.   |              |  |  | L  | L  | L        |
|       | 71       |          | Ť         |       |          |   |  |              |  |  |  |  |          |
| _     | 72       |          | Ť         |       | Γ        | _ | Γ  | П            |  | Г  |  |  |          |
| .*    | 73       |          | †         | _     | Ť        | _ |  |              |  |  |  | Т  |          |
|       | 74       |          | +         |       | -        |   | <del>                                     </del>   | H            | <del>                                     </del> |  |  |  | $\vdash$ |
|       | 75       | Ě        | +         |       | -        | _ | <del>                                     </del>   | H            | $\vdash$   |  |  | -  | -        |
|       | 76       | H        | +         |       | $\vdash$ | - |  | H            | -  |  | <del>                                     </del> | <del> -</del>                                    | $\vdash$ |
|       | 77       | $\vdash$ | +         |       | $\vdash$ | - | +  | <del> </del> | -  |  | ├  | ├  | ├-       |
|       |          | ⊢        | +         |       | $\vdash$ | _ |  | $\vdash$     | ├—   |  | -  |  | -        |
|       | 78       | -        | 4         |       | L        |   | -  | -            | ├—   | <u> </u>   | <u> </u>   | -  | -        |
|       | 79       | $\vdash$ | 4         | _     | L        | _ | <u> </u>   | L            | <b> </b>   |  |  | _  | _        |
|       | 80       | L        | 1         |       | L        |   | $ldsymbol{ld}}}}}}$ | <u> </u>     | _  | <u> </u>   |  | <u> </u>   | L        |
|       | 81       | L        | 1         |       | L        | _ | $oxed{oxed}$   | _            | L_   |  | L  | L  | L        |
|       | 82       | L        |           |       | L        | _ | L  | L            | L  | L  | L  |  | L        |
|       | 83       |          | Ī         |       | ſ        | _ |  |              |  | $L^{-}$  | E  |  |          |
|       | 84       | Γ        | 1         |       | Γ        | _ |  |              |  |  | _  |  |          |
|       | 85       | Γ        | 1         |       | Γ        |   | Γ  |              |  |  |  |  | Γ        |
|       | 86       | Г        | †         |       | T        | _ |  | Γ-           |  |  |  | Г  | Г        |
|       | 87       | Т        | †         | _     | T        |   | Т  | Ι-           | Г  | П  | Г  |  | Г        |
|       | 88       | H        | †         | -     | t        | - | <u> </u>   |              |  | <del>                                     </del> | Г  | Н  | H        |
|       | 89       | $\vdash$ | +         |       | t        | - |  | $\vdash$     |  | $\vdash$   | $\vdash$   | -  | $\vdash$ |
|       | 90       | ٠.       | +         |       | +        | _ |  | $\vdash$     | $\vdash$   | +-   | $\vdash$   |  | -        |
|       |          | $\vdash$ | +         | -     | ┞        |   | -  |              | $\vdash$   | ├  | $\vdash$   | -  | <u> </u> |
|       | 91       | L        | 4         | `     | L        | _ | L.   | L            | ļ  | L.   | <u> </u>   | _  | _        |
|       | 92       | L        | 1         |       | L        |   | _  | L.           |  | <u> </u>   | <u> </u>   |  | _        |
|       | 93       | Ĺ        |           |       | L        | _ |  | L            | L  | L  | L  |  | L        |
|       | 94       |          | T         |       | Γ        |   |  |              |  |  |  | Ι_   | Γ        |
|       | 95       | Γ        | †         | _     | Γ        | _ |  |              |  |  | Г  | Γ  |          |
|       | 96       |          | †         |       | T        | • |  |              | Г  |  |  | Г  |          |
|       | 97       |          | 1         |       | H        | - | _  | $\vdash$     | _  | -  | <del> </del>                                     | <del>                                     </del> | $\vdash$ |
|       | 98       | -        | +         |       | H        | - |  | -            | -  | $\vdash$   |  | -  | $\vdash$ |
|       | 99       | -        | +         |       | -        | - | -  | ├-           | $\vdash$   | -  |  | -  |          |
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| 101   | _     |              |          |              |          |          |          |          |          |                                |          | $\neg$   |
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| 106   107   108   109   110   111   112   113   114 |       |              |          |              |          |          |          |          |          |                                |          |          |
| 106   107   108   109   110   111   112   113   114 |       |              |          |              |          |          |          |          |          |                                |          | _        |
| 107   | _     |              | _        | L_,          |          |          |          |          |          |                                |          |          |
| 108   109   110   111   112   113   114 |       |              |          |              |          |          |          |          |          |                                |          |          |
| 109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   149   149   149   149   149   149   149   149   149   149   149   | _     |              |          |              |          |          |          |          |          |                                |          | <b>—</b> |
| 110   | _     |              |          |              |          |          |          |          |          |                                |          | _        |
| 111   | _     |              |          |              | $\vdash$ | -        |          |          |          |                                |          | _        |
| 112   |       |              |          | -            | Н        | -        |          |          |          |                                | _        | _        |
| 113   | _     |              | -        | Н            | H        | $\vdash$ |          |          |          | $\dashv$                       | $\dashv$ |          |
| 114   |       | 113          | _        |              | H        |          | _        | Н        | -        | Н                              |          | _        |
| 115   |       |              |          |              |          |          |          | Н        | Н        | Н                              | H        |          |
| 116   | :     |              |          |              |          |          | П        | П        | Н        | П                              | П        | _        |
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| 128   |       |              |          |              | L        | <u> </u> | ļ        |          | <u> </u> | ļ                              |          | Ш        |
| 129   |       |              | _        | _            |          | _        |          |          | _        |                                | _        | $\vdash$ |
| 130   |       |              | L        | _            | <u> </u> |          | ļ.,      | -        | -        | -                              | L        | $\vdash$ |
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| 133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>144<br>145<br>146<br>147<br>148   | _     |              | -        | $\vdash$     |          | ⊢        |          | ├        | ⊢        | ╀                              | ⊢        | $\vdash$ |
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| 138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       |              |          | 1            | ├~       | T        | 一        | † —      | $\vdash$ | t                              | T        |          |
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| 140   |       |              |          | Т            | Γ        | Г        |          |          |          |                                |          |          |
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| 148   |       |              |          |              | Ĺ        |          | $\Box$   | L        | L        | Ĺ                              | _        | L_       |
| 149   | _     |              |          |              |          |          |          |          | L        | $oxedsymbol{oxedsymbol{oxed}}$ |          | <u> </u> |
|   |       | -            |          |              | $\Box$   | L        | Ŀ        | L        | L        | L                              | ļ_       | <u> </u> |
| [150]   |       |              |          | <u> </u>     | ot       | _        | _        | L_       | _        | L                              | <u> </u> | $\vdash$ |
|   |       | 150          | L        | L            | L        | L_       | <u> </u> |          |          | L_                             | L_       | <u></u>  |

If more than 150 claims or 10 actions staple additional sheet here

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